WHAT IS CLAIMED IS:

- 1. An antibody that binds specifically to a polypeptide comprising an ubiquitination-regulating domain.
- 2. The antibody of claim 1, wherein said ubiquitination-regulating domain is an ubiquitination-regulating domain, or a functional fragment thereof, of a TSG101 protein.
- 3. The antibody of claim 2, wherein said TSG101 protein is a human TSG101 protein.
- 4. The antibody of claim 3, wherein said ubiquitination-regulating domain comprises amino acid residues 50-140 of said human TSG101 protein.
- 5. The antibody of claim 3, wherein said ubiquitination-regulating domain comprises amino acid residues 1-140 of said human TSG101 protein.
- 6. The antibody of claim 3, wherein said ubiquitination-regulating domain comprises amino acid residues 140-250 of said human TSG101 protein.
- 7. A method of producing an antibody that binds specifically to an ubiquitination-regulating domain, comprising raising said antibody against a polypeptide comprising said ubiquitination-regulating domain.
- 8. The method of claim 7, wherein said ubiquitination-regulating domain is a ubiquitination-regulating domain, or a functional fragment thereof, of a TSG101 protein.
- 9. The method of claim 8, wherein said TSG101 protein is a human TSG101 protein.
- 10. The method of claim 9, wherein said ubiquitination-regulating domain comprises amino acid residues 50-140 of said human TSG101 protein.

- 11. The method of claim 8, wherein said ubiquitination-regulating domain comprises amino acid residues 1-140 of said human TSG101 protein.
- 12. The method of claim 9, wherein said ubiquitination-regulating domain comprises amino acid residues140-250 of said human TSG101 protein.
- 13. A method of treating a condition in a subject, said condition resulting from a change in a level of MDM2 protein in cells of said subject, said method comprising administering to said subject a therapeutically effective amount of an agent, said agent comprising an ubiquitination-regulating domain.
- 14. A method of treating a condition in a subject, said condition resulting from a change in a level of a TSG101 protein in cells of said subject, said method comprising administering to said subject a therapeutically effective amount of an agent, said agent modulating the interaction of said TSG101 protein with MDM2.
 - 15. A method for treatment of a proliferative disease in a subject comprising:
 - (a) monitoring the subject for a level of p53; and
- (b) treating the subject with an agent so as to maintain said level of p53 within a target range, wherein said agent comprises an ubiquitination-regulating domain.
 - 16. A method for treatment of a proliferative disease in a subject comprising:
 - (a) monitoring the subject for a level of TSG101; and
 - (b) treating the subject with an agent so as to maintain said level of TSG101 within a target range, wherein said agent modulates the interaction of said TSG101 with MDM2.

- 17. The method of claim 13, 14, 15 or 16, wherein said ubiquitination-regulating domain is an ubiquitination-regulating domain, or a functional fragment thereof, of a TSG101 protein.
- 18. The method of claim 17, wherein said TSG101 protein is a human TSG101 protein.
- 19. The method of claim 18, wherein said ubiquitination-regulating domain comprises amino acid residues 50-140 of said human TSG101 protein.
- 20. The method of claim 18, wherein said ubiquitination-regulating domain comprises amino acid residues 1-140 of said human TSG101 protein.
- 21. The method of claim 18, wherein said ubiquitination-regulating domain comprises amino acid residues 140-250 of said human TSG101 protein.
- 22. A method for treating a proliferative disease in a subject, said method comprising administering to said subject a therapeutically effective amount of an agent, said agent modulating the interaction of a TSG101 protein with MDM2.
- 23. A cell comprising a polynucleotide encoding an ubiquitination-regulating domain operationally linked to a regulatory sequence such that said cell expresses said ubiquitination-regulating domain.
- 24. A cell comprising (i) a polynucleotide encoding an ubiquitination-regulating domain operationally linked to a regulatory sequence; and (ii) a polynucleotide encoding MDM2 protein operationally linked to a regulatory sequence, such that said cell expresses said ubiquitination-regulating domain and said MDM2 protein.
- 25. A cell comprising (i) a polynucleotide encoding an ubiquitination-regulating domain operationally linked to a regulatory sequence; (ii) a polynucleotide encoding

MDM2 protein operationally linked to a regulatory sequence; and (iii) a polynucleotide encoding p53 protein operationally linked to a regulatory sequence, such that said cell expresses said ubiquitination-regulating domain, said MDM2 protein, and said p53 protein.

- 26. The cell of claim 23, 24 or 25, wherein said ubiquitination-regulating domain is an ubiquitination-regulating domain, or a functional fragment thereof, of a TSG101 protein.
- 27. The cell of claim 26, wherein said TSG101 protein is a human TSG101 protein.
- 28. The cell of claim 27, wherein said ubiquitination-regulating domain comprises amino acid residues 50-140 of said human TSG101 protein.
- 29. The cell of claim 27, wherein said ubiquitination-regulating domain comprises amino acid residues 1-140 of said human TSG101 protein.
- 30. The cell of claim 27, wherein said ubiquitination-regulating domain comprises amino acid residues 140-250 of said human TSG101 protein.
- 31. A method of identifying an agent that modulates the interaction of a TSG101 protein with MDM2, comprising screening candidate agents using a screening assay comprising a cell expressing MDM2 and a polypeptide comprising an ubiquitination-regulating domain, or a functional fragment thereof, of said TSG101 protein.
- 32. A method of identifying an agent that is capable of modulating the interaction of a TSG101 protein with MDM2, comprising:
 - (a) contacting a first cell expressing MDM2 and a polypeptide comprising an ubiquitination-regulating domain, or a functional fragment thereof, of

said TSG101 protein with said agent and measuring MDM2 level in said first cell;

- (b) contacting a second cell expressing MDM2 but not an ubiquitination-regulating domain, or a functional fragment thereof, of said TSG101 protein, with said agent and measuring MDM2 level in said second cell; and
- (c) comparing MDM2 levels measured in (a) and (b),

wherein a difference in MDM2 levels compared in step (c) identifies said agent as capable of modulating the interaction of the TSG101 protein with MDM2.

- 33. The method of claim 31 or 32, wherein said TSG101 protein is a human TSG101 protein.
- 34. The method of claim 33, wherein said ubiquitination-regulating domain comprises amino acid residues 50-140 of said human TSG101 protein.
- 35. The method of claim 33, wherein said ubiquitination-regulating domain comprises amino acid residues 1-140 of said human TSG101 protein.
- 36. The method of claim 33, wherein said ubiquitination-regulating domain comprises amino acid residues 140-250 of said human TSG101 protein.
- 37. A method of modulating a level of MDM2 in a cell, comprising contacting said cell with a polypeptide or derivative thereof that comprises a polypeptide comprising an ubiquitination-regulating domain.
- 38. A method of modulating a level of p53 in a cell, comprising contacting said cell with a polypeptide or derivative thereof that comprises a polypetide comprising an ubiquitination-regulating domain.

- 39. A method of modulating a level of TSG101 in a cell, comprising contacting said cell with an agent that is capable of modulating the interaction of a TSG101 protein with MDM2.
- 40. A method of modulating a level of MDM2 in a cell, comprising contacting said cell with an agent that is capable of modulating the interaction of a TSG101 protein with MDM2.
- 41. A method of modulating a level of p53 in a cell, comprising contacting said cell with an agent that is capable of modulating the interaction of a TSG101 protein with MDM2.
- 42. A method for screening for a cellular protein that interacts with an ubiquitination-regulating domain, comprising identifying a cellular protein that binds said ubiquitination-regulating domain.